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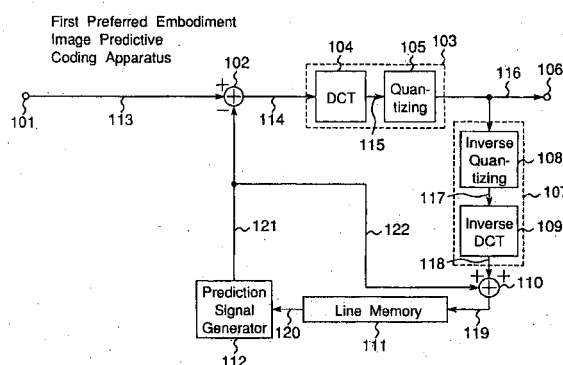
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(54) **Intraframe block prediction by using adjacent blocks**

(57) There is disclosed image predictive coding apparatus and method, image predictive decoding apparatus and method and recording medium which stores therein the image predictive coding method or the image predictive decoding method, of which the transform efficiency is remarkably improved in comparison with the prior arts. According to the above image predictive coding apparatus and method, when dividing inputted image data to be coded into image data of a plurality of small regions which are adjacent to each other and coding the image data of an objective small region to be processed among the image data of the plurality of divided small regions which are adjacent to each other, reconstructed image data of a reproduction small region adjacent to the image data of the objective small region to be processed is used as image data of an intra-frame prediction small region of the objective small region to be processed, the image data of the intra-frame prediction small region is used as image data of an optimum prediction small region and image data of a difference small region which are differences between the image data of the objective small region to be processed and the image data of the optimum prediction small region is generated. Then, the generated image data of the difference small region is coded and outputted, and then the coded image data of the difference small region is

decoded, so that the reconstructed image data of the reproduction small region is generated by adding the decoded image data of the difference small region to the image data of the optimum prediction small region.

Fig. 1





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EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Y	SEE C-T ET AL: "EFFICIENT ENCODING OF DC COEFFICIENTS IN TRANSFORM CODING OF IMAGES USING JPEG SCHEME" SIGNAL IMAGE AND VIDEO PROCESSING. SINGAPORE, JUNE 11 -14, 1991, PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON CIRCUITS AND SYSTEMS, NEW YORK, IEEE, US, vol. 1 SYMP. 24, 11 June 1991 (1991-06-11), pages 404-407, XP000384794 ISBN: 0-7803-0050-5 * figures 1,4; table 3 *	1-4	H04N7/34
Y	NETRAVALI A N ET AL: "PICTURE CODING: A REVIEW" PROCEEDINGS OF THE IEEE, IEEE. NEW YORK, US, vol. 68, no. 3, 1 March 1980 (1980-03-01), pages 366-407, XP002028499 ISSN: 0018-9219 * page 382, column 2, paragraph 2; figure 28 *	1-4	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
X,P	AD HOC GROUP ON MPEG-4 VIDEO VM EDITING: "MPEG-4 Video verification model 5.0" ISO/IEC JTC1/SC29/WG11, November 1996 (1996-11), pages 55-60, XP002240954 Maceio * page 57, last paragraph - page 60, paragraph 1 * * page 57 *	3,4	H04N G06T
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 14 May 2003	Examiner Raeymaekers, P
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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